WO 2005/045025 PCT/EP2004/012567

SEQUENCE LISTING

<110> Kumar, Chandrika <120> Cloning and characterization of 5' Flanking Regions of a Human Aggrecanase-1 Gene <130> 4-33474 <150> 60/517,829 <151> 2003-11-06 <160> 37 <170> FastSEQ for Windows Version 4.0 <210> 1 <211> 2403 <212> DNA <213> Homo sapiens <400> 1 ctgcatttat ttgccttgat ccagcctggg agaagtcagg atagactttg ggctgcttgg 60 ccctggaggc agcttgagct gggactgggg tggggggctc ctgaggggct gcctaggaca 120 ctgcagcttt tgtgccttct ccctgctgcc aacacccca cacacactgc tgcagccact 180 ctaaagcct ttgtcttca ttgcttagtc accccctttg tcctcatctc aaatagggga 240 gtggaaaggg gcagtagagt tctctggtga tagctcctct tgcccctgcc ccttctggtc 300 tcccaccctt tgtccgactc ctctagtccc agccccgttg gcttagaacc agggtcaggc 360 aagtggtggg tcaagaggtg ggtctggcag tcacaagggg gtgggtgatc caggaagtga 420 taggcaccag ggcaggtatt accgacctga gcaggaaggg agggggaaag gaagtattct 480 gacggatatg atatgcgggg gacaggaggt gacaaagcag agtgaatagg ggaatagagg 540 caagaggagg tggtccactt ctgggaaagg aaagagactg ctgactgcac tctccttcct 600 ggggatttcc tggggaaaca agcagccaga ggatgggtg agcagaaatt gcccctactt 660 ctgaaccctt ccttgccttg agagttcata cccaagacct ctttccgag ttccctcct 720 tccaaagcca aggaaaaaa ttggttcctt tccctaacac cacctcttcc tccccagca 840 ctttccccac cccaggcaat ggatttctcc cagtacccta atttccctat atgcacaatg 840 ctgtctccac cctctcctg ccccagggag aattaaaaag aaaagatgac tagatattcc 900 aggaaccact gggttctcag agcaaggtgg ggtggatggt gggagccagg tggggattct 960 cccagattga tactgggtga atctgggttc ctgagagcaa gtcttgccta tgctgggggc 1020 tggctgactt gaggctgggg gagggtttag ggcagttggg agtgggtagg agcagggcca 1080 aaagcctggg ggaagctact gggagctggg ccagggaaat ggggggtcag gaagtgggga 1140 gggggaaccc tggggggaaa tggaggcgga atggctgttc tgggctttgg agggggtggg 1200 tagtggtaac tcaggaaggg ggatcctgag ggagagaagg gacgttagaa aagaggaggt 1260 gccaccttgt atcagaagga aaagtggta accctcctg ccttgtcatc 1320 tgccgcctct gttatgttca ttccaagcag gatcatccta cctttgggca gtcaactccc 1380 tgatcactgt ctccttgcct cccccaatgt tctgcctttt ttactcttcc cagctgctca 1440 gttctatcct gagccatgtc aagctacctc ttttatttgt tcttccctct tgatgcctcc 1500 ttacctgttc cctaccctct tttctcaggc agctcactca gtcccctcag ccctggaaga 1520 cagccactag ggccaaaggg cagcatgagg gagccttgag aaaagagaag ccatggtagg 1620 ttagactata agagcaggaa ttctccagg accgtgatc tatctgtgca tgccggccag 1680 gccctttccc tcactctctg cctctcctgg ggctctgtcc caccaaaaag ggaaagagac 1740 agctgaggc tgattgtggg gtttgggaaa aggctatgtc atcagctggc ccagtgccta 1800 ttatccattc ggctgctaga gattccctc ccctgggcaa gtcccattt tttgggaagc 1860 gatgatacac ccatctgagt cccaccgaca gagctcagct gagtggctta gagatcagcc 1920 aatcaatcgc agaggctcac catgcttaaa agagctggcg cggagagagg ctggggagaa 1980 accacaggga gacccacaga cacatatgca cgagagagaca agaggaggaa agagacagag 2040 cctacagagg gagaggccag agaagctgca gaagacacag gcagggagag acaaagatcc 2160 aggaaaggag ggctcaggag gagagtttgg agaagccaga cccctgggca cctctcccaa 2220 gcccaaggac taagtttct ccatttcctt taacggtcct cagcccttct gaaaactttg 2280 cctctgacct tggcaggagt ccaagccccc aggctacaga gaggagcttt ccaaagctag 2340 ggtgtggagg acttggtgcc ctagacggcc tcagtccctc ccagctgcag taccagtgcc 2400 ata atg 2403 <210> 2 <211> 2003 <212> DNA

WO 2005/045025 PCT/EP2004/012567

<213> Homo sapiens

atttccctat atgcacaatg ctftcccac cccaggcaat ggattctcc cagtacccta 420 atttccctat atgcacaatg ctgtctccac cctctccctg ccccagggag aattaaaaag 480 aaaagatgac tagatattcc aggaaccact gggttctcag agcaaggtgg ggtggatggt 540 gggagccagg tgggggct cccagattga tactgggtga atctgggtc ctgagagcaa 600 gtcttgccta tgctggggc tggctgactt gaggctgggg gagggtttag ggcagttggg 660 agtgggtagg agcagggga aaagcctggg ggaagctact gggagctggg ccagggaata 720 ggggagtcag gaagtgggg gggggaccc tggggggaaa tggaggcgga atggctgtc 780 tggggctttgg aggggtggg tagtggtaac tcaggaaggg ggatcctgag ggagagaagg 840 gacgttagaa aaagaggaggt gccaccctgg atccgcttc tataaaagga aaagtcgta 900 acccctcctg ccttgtcatc tgccgcctct gttatgtca ttccaagcag gatcatccta 960 cctttgggca gtcaactccc tgatcactgt ctccttgcct ccccaatgt tctgcctttt 1020 cctttgggca gtcaactccc tgatcactgt ctccttgcct cccccaatgt tctgcctttt 1020 ttactcttcc cagctgctca gttctatcct gagccatgtc aagctacctc ttttatttgt 1080 tcttccctct tgatgcctcc ttacctgttc cctaccctct tttctcaggc agctcactca 1140 agaagcggcc cagacagagt cctacagagg gagaggccag agaagctgca gaagacacag 1740 gcagggagag acaaagatcc aggaaaggag ggctcaggag gagagtttgg agaagccaga 1800 ccctgggca cctctccaa gcccaaggac taagttttct ccatttcctt taacggtcct 1860 cagcccttct gaaaactttg cctctgacct tggcaggagt ccaagccccc aggctacaga 1920 gaggagcttt ccaaagctag ggtgtggagg acttggtgcc ctagacggcc tcagtccctc 1980 ccagctgcag taccagtgcc atg <211> 1603 <212> DNA

<213> Homo sapiens

<400> 3

tataaaagga aaagtcgtta acccctcctg ccttgtcatc tgccgcctct gttatgttca 540 ttccaagcag gatcatccta cctttgggca gtcaactccc tgatcactgt ctccttgcct 600 cccccaatgt tctgcctttt ttactcttcc cagctgctca gttctatcct gagccatgtc 660 aagctacctc ttttatttgt tcttcctct tgatgcctcc ttacctgttc cctaccctct 720 aagctacctc ttttatttgt tcttccctct tgatgcctcc ttacctgttc cctaccctct 720 tttctcaggc agctcactca gtcccctcag ccctggaaac cagccactag ggccaaaggg 780 cagcatgagg gagccttgag aaaagagaag ccatggtagg ttagactata agagcaggaa 840 ttctcccagg accgtgatcc tatctgtgca tgccggccag gccctttccc tcactctctg 900 cctctcctgg ggctctgtcc caccaaaaag ggaaagagac agctgaggc tgattgtggg 960 gtttgggaaa aggctatgtc atcagctggc ccagtgccta ttatccattc ggctgctaga 1020 gattcccctc ccctgggcaa gtcccatttt tttgggaagc gatgatacac ccatctgagt 1080 cccaccgaca gagctcagct gagtggctta gagatcagcc aatcaatcgc agaggctcac 1140 catgcttaaa agagctggcg agaggagag agaggagaa accaaaggac cccacagga gacccacaga 1200 cacatatgca cgagaggaca agaggaggaa agagacagag acaaaggcac agaggccag 1320 agaagctgca gaagaccaga gcaggagag acaaagatcc aggaaaggag ggctcaggag 1320 agaagctgca gaaagccaga cccctgggca ccctcccaa gcccaaaggac taagtttct 1440 ccatttcctt taacggtcct cagcccttct gaaaactttg cctctgacct tqqcaqaqt 1500 ccătîtccît tăacăgtcct cagcccttct gaaaactttg cctctgăcct tggcaggagt 1500

WO 2005/045025 PCT/EP2004/012567

```
ccaagccccc aggctacaga gaggagcttt ccaaagctag ggtgtggagg acttggtgcc 1560
ctagacggcc tcagtccctc ccagctgcag taccagtgcc atg
<210> 4
<211> 1203
<212> DNA
<213> Homo sapiens
<400> 4
tagtggtaac tcaggaaggg ggatcctgag ggagagaagg gacgttagaa aagaggaggt 60 gccaccctgg atccgccttc tataaaagga aaagtcgtta acccctcctg ccttgtcatc 120
tgccgcctct gttatgttca ttccaagcag gatcatccta cctttgggca gtcaactccc 180 tgatcactgt ctccttgcct ccccaatgt tctgccttt ttactcttcc cagctgctca 240 gttctatcct gagccatgtc aagctacctc ttttatttgt tcttccctct tgatgcctcc 300 ttacctgttc ccccctct tttctcaggc agccatgtc agccatgtc agccatgagaa 360
cagccactag ggccaaaggg cagcatgagg gagccttgag aaaagagaag ccatggtagg 420 ttagactata agagcaggaa ttctccagg accgtgatcc tatctgtgca tgccggccag 480 gccctttccc tcactctctg cctctctgg ggctctgtcc caccaaaaag ggaaagagac 540 agctgagggc tgattgtggg gtttgggaa aggctgatgtc atcactgtt tttggaaa 660
ttatccattc ggctgctaga gattcccctc ccctgggcaa gtcccatttt tttgggaagc 660 gatgatacac ccatctgagt cccaccgaca gagctcagct gagtggctta gagatcagcc 720 aatcaatcgc agaggctcac catgcttaaa agagctggcg cggagagagg ctggggagaa 780 cccacaggga gacccacaga cacatatgca cgagagaggaa agagacagag 840
cctacagagg gagaggccag agaagctgca gaagacacag gcagggagag acaaagatcc 960 aggaaaggag ggctcaggag gagagtttgg agaagccaga cccttgggca cctctcccaa 1020 gcccaaggac taagttttct ccatttcctt taacggtcct cagcccttct gaaaactttg 1080
cctctgacct tggcaggagt ccaagccccc aggctacaga gaggagcttt ccaaagctag 1140
ggtgtggagg acttggtgcc ctagacggcc tcagtccctc ccagctgcag taccagtgcc 1200
<210> 5
<211> 803
 <212> DNA
<213> Homo sapiens
<400>5
aaaagagaag ccatggtagg ttagactata agagcaggaa ttctcccagg accgtgatcc 60 tatctgtgca tgccggccag gccctttccc tcactctctg cctctcctgg ggctctgtcc 120 caccaaaaag ggaaaagagac agctgaggc tgatgggg gtttggggaaa aggctatgtc 180
atcagctggc ccagtgccta ttatccattc ggctgctaga gattcccctc ccctgggcaa 240 gtcccatttt tttgggaagc gatgatacac ccatctgagt cccaccgaca gagctcagct 300 gagtggctta gagatcagcc aatcaatcgc agaggctcac catgcttaaa agagctggcg 360
agaagcggcc cagacagagt cctacagagg gagaggccag agaagctgca gaagacacag 540 gcagggagag acaaagatcc aggaaaggag ggctcaggag gagagtttgg agaagccaga 600 cccctgggca cctctccaa gcccaaggac taagttttct ccatttcctt taacggtcct 660
cagccettet gaaaactttg cetetgacet tggcaggagt ceaagecece aggetacaga 720 gaggagettt ceaaagetag ggtgtggagg acttggtgee etagacggee teagteete 780 ceagetgeag taccagtgee atg
<210> 6
<211> 403
<212> DNA
 <213> Homo sapiens
 <400> 6
cacatatgca cgagagagac agaggaggaa agagacagag acaaaggcac agcggaagaa 60
 ggcagagāca gggcaggcac agaagcggcc cagacagagt cctacagagg gagaggccag 120
agaagctgca gaagacacag gcagggagag acaaagatcc aggaaaggag ggctcaggag 180 gagagtttgg agaagccaga cccttgggca cctctcccaa gcccaaggac taagttttct 240 ccattcctt taacggtcct cagcccttct gaaaactttg cctctgacct tggcaggagt 300 ccaagccccc aggctacaga gaggagcttt ccaaagctag gtgtggagg acttggtgcc 360
 ctagacggcc tcagtccctc ccagctgcag taccagtgcc atg
                                                                                                                                    403
 <210> 7
 <211> 21
 <212> DNA
```

WO 20	005/045025			PCT/EP2004/012567
<213> Homo	sapiens			
<400> 7 tttccctggc	aaggactatg	a		21
<210> 8 <211> 17 <212> DNA <213> Homo	sapiens			
<400> 8 aatggcgtga	gtcgggc			17
<210> 9 <211> 26 <212> DNA <213> Homo	sapiens			
<400> 9 tgatctcttt	tggaattaag	gagcat		26
<210> 10 <211> 23 <212> DNA <213> Homo	sapiens			
<400> 10 atgggcatct	cctccataat	ttg		23
<210> 11 <211> 19 <212> DNA <213> Homo	sapiens			
<400> 11 gcaaaccttc	aaggcagcc			19
<210> 12 <211> 19 <212> DNA <213> Homo	sapiens			
<400> 12 tgctgtttgc	ctcggacat			19
<210> 13 <211> 33 <212> DNA <213> Homo	sapiens			
<400> 13 gcgcgctcga	gctgcattta	tttgccttga	tcc	33
<210> 14 <211> 33 <212> DNA <213> Homo	sapiens			
<400> 14 gcgcgaagct	tggcactggt	actgcagctg	gga	33
<210> 15 <211> 33 <212> DNA <213> Homo	sapiens			
<400> 15 gcgcgctcga	ggtgggtgat	ccaggaagtg	ata	33

<210> 16 <211> 36 <212> DNA <213> Homo	sapiens			
<400> 16 gcgcgctcga	ggatttctcc	cagtacccta	atttcc	36
<210> 17 <211> 33 <212> DNA <213> Homo	sapiens			
<400> 17 gcgcgctcga	gtagtggtaa	ctcaggaagg	999	33
<210> 18 <211> 33 <212> DNA <213> Homo	sapiens			
<400> 18 gcgcgctcga	gaaaagagaa	gccatggtag	gtt	33
<210> 19 <211> 33 <212> DNA <213> Homo	sapiens			
<400> 19 gcgcgctcga	gcacatatgc	acgagagaga	cag	33
<210> 20 <211> 22 <212> DNA <213> Homo	sapiens			
<400> 20 ccttcctggg	gatttcctgg	9 9		22
<210> 21 <211> 22 <212> DNA <213> Homo	sapiens			
<400> 21 ccccaggaaa	tccccaggaa	99		22
<210> 22 <211> 22 <212> DNA <213> Homo	sapiens			
<400> 22 ccttcctgga	gatttcctgg	9 9		22
<210> 23 <211> 22 <212> DNA <213> Homo	sapiens			
<400> 23 ccccaggaaa	tctccaggaa	99		22
<210> 24 <211> 20 <212> DNA <213> Homo	sapiens			

PCT/EP2004/012567

WO 2005/045025

WO 2005/045025		PCT/EP2004/012567
<400> 24 cattgcttag tcacccctt		20
<210> 25 <211> 20 <212> DNA <213> Homo sapiens		
<400> 25 aagggggtga ctaagcaatg		20
<210> 26 <211> 20 <212> DNA <213> Homo sapiens		
<400> 26 cattgcttgg gcacccctt		20
<210> 27 <211> 20 <212> DNA <213> Homo sapiens		
<400> 27 aagggggtgc ccaagcaatg	в	20
<210> 28 <211> 27 <212> DNA <213> Homo sapiens		
<400> 28 ggtccacttc tgggaaagga aagagac		27
<210> 29 <211> 27 <212> DNA <213> Homo sapiens		
<400> 29 gtctctttcc tttcccagaa gtggacc		27
<210> 30 <211> 27 <212> DNA <213> Homo sapiens		
<400> 30 ggtccacata tgggaaagga aagagac		27
<210> 31 <211> 27 <212> DNA <213> Homo sapiens		
<400> 31 gtctctttcc tttcccatat gtggacc		27
<210> 32 <211> 37 <212> DNA <213> Homo sapiens		
<400> 32 ctttgtcttt cattgcttgg gcaccccctt tgtcctc		37
<210> 33 <211> 37		

<212> DNA <213> Homo	sapiens		·	
<400> 33 gaggacaaag	ggggtgccca a	agcaatgaaa	gacaaag	37
<210> 34 <211> 38 <212> DNA <213> Homo	sapiens			
<400> 34 caagaggagg	tggtccacat a	atgggaaagg	aaagagac	38
<210> 35 <211> 38 <212> DNA <213> Homo	sapiens			
<400> 35 gtctctttcc	tttcccatat g	gtggaccacc	tcctcttg	38
<210> 36 <211> 32 <212> DNA <213> Homo	sapiens			
<400> 36 cactctcctt	cctggagatt 1	tcctggggaa	ac	32
<210> 37 <211> 32 <212> DNA <213> Homo	sapiens			
<400> 37 gtttccccag	gaaatctcca (ggaaggagag	tg	32

PCT/EP2004/012567

WO 2005/045025